

Message Text

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INFO OCT-01 EUR-12 ISO-00 OES-05 /020 R

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APPROVED BY OES/SCI/SA DAVOGT

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TO AMEMBASSY PARIS

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FOLLOWING REPEAT STATE 068666 ACTION OTTAWA COPENHAGEN MOSCOW
INFO THULE AFB ELMENDORF AFB EILSON AFB CSAF SONDESTRON AFB
MAR 26

QUOTE

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E.O. 11652: N/A

TAGS: TSPA

SUBJECT: NASA ARCTIC EXPERIMENT PROGRAM, AIRCRAFT FLIGHTS

PASS NASA EUROPEAN REPRESENTATIVE

1. NASA PLANS UF NASA CV-990 AIRCRAFT THIS SPRING FOR
ARCTIC EXPERIMENT PROGRAM AS FOLLOWS:

(A) AIDJEX IS JOINT U.S./CANADIAN EXPERIMENT INVOLVING
MANNED AND UNMANNED STATIONS ON SEA ICE NORTH OF ALASKA
WITH OBJECTIVE TO COUPLE REMOTE SENSING MEASUREMENTS FROM
CV-990 WITH SURFACE MEASUREMENTS FOR DEVELOPMENT ICE
DYNAMIC MODEL IN TURN, FOR USE IN GLOBAL ATMOSPHERIC
MODEL.

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(B) BESMEX TO DEMONSTRATE REMOTE SENSING TECHNIQUES FOR DEVELOPMENT OF PREDICTIVE ECOLOGICAL MODELS FOR MANAGEMENT AND CONSERVATION OF BERING SEA MARINE MAMMALS.

(C) POLAR ICE STUDIES TO DETERMINE MICROWAVE EMISSION CHARACTERISTICS OF GREENLAND ICE SHEET AND POLAR ICE AND RELATE TO NIMBUS SATELLITE DATA.

(D) RADAR OBSERVATIONS TO ACQUIRE SYNTHETIC-APERTURE RADAR DATA ON GREENLAND ICE LAYERING, CONFIGURATION AND SURFACE MOTION.

(E) ACQUISITION OF RADIOMETRIC DATA OVER OCEANS UNDER VARIOUS SEA-STATE AND METEOROLOGICAL CONDITIONS TO REFINER MICROWAVE PARAMETERS OF OCEAN.

(F) RADAR IMAGERY PROGRAM TO ESTABLISH RELATIONSHIP BETWEEN OCEAN WAVE CHARACTERISTICS AND RADAR IMAGES.

(G) SPECTRA STUDIES TO CORRELATE RADAR DATA WITH OCEAN WAVES MEASURED WITH AIRCRAFT LASER PROFILOMETERS.

2. MOST EXPERIMENTS OVER INTERNATIONAL WATERS BUT SEVERAL REQUIRE AIRBORNE OBSERVATIONS OVER NORTHERN CANADA, GREENLAND, AND NEAR SOVIET UNION.

3. BESMEX FLIGHTS, SCHEDULED FOR APRIL 2-7 FROM ELMENDORF AFB, WILL CONCENTRATE ON OBSERVATIONS WITHIN TWO CIRCULAR AREAS OF 120 NAUTICAL MILES RADIUS CENTERED AT 61 DEGREES 37 MINUTES NORTH, 174 DEGREES 56 MINUTES WEST AND 58 DEGREES 00 MINUTES NORTH, 164 DEGREES, 30 MINUTES WEST. FLIGHT PATTERN FOR FIRST AREA WILL BRING AIRCRAFT TO WITHIN 45 NM OF SOVIET LAND MASS. FLIGHTS TO BE FLOWN AT 3000 FT ALTITUDE.

4. FOR POLAR ICE STUDIES, AIRCRAFT WILL FLY NUMBER OF TRACKS ACROSS GREENLAND OVER TRANSECTS PREVIOUSLY UNDERTAKEN BY SURFACE INVESTIGATORS AND TEST SITES PLANNED FOR SPRING 1975. MICROWAVE SIGNATURES WILL BE RECORDED AT WAVELENGTHS WHICH WILL GIVE FURTHER INSIGHT AS TO NATURE OF CONSIDERABLE EMISSIVITY VARIATION.

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ATION ALREADY INDICATED BY NIMBUS SATELLITE AT WAVELENGTH OF 1.55 CM ACCORDING TO GEOGRAPHIC LOCATION ON GREENLAND ICE SHEET.

5. POLAR REGIONS RADAR OBSERVATIONS OF GREENLAND ICE LAYERING WILL BE OBTAINED IN CONJUNCTION WITH POLAR ICE STUDIES (PARA 4 ABOVE) DURING GREENLAND OVER-

FLIGHT OF APPROXIMATELY 5-6 HOURS STAGED FROM THULE.

6. POLAR FLIGHTS WILL BE CONDUCTED TO OBSERVE LINE PATTERNS FROM ALTITUDES BETWEEN 2,000 AND 35,000 FEET.

7. PLANS ALSO TO FLY TRANSECT FROM THULE TO NORTH POLE TO POINT BARROW TO OBTAIN MORE COMPLETE PICTURE OF MULTI YEAR ICE FLOWS SIZE DISTRIBUTION NOTED IN EARLIER AIDJEX STUDIES.

8. TENTATIVE FLIGHT SCHEDULE AS FOLLOWS:

DEPART EIELSON AFB	0700 LT ADT APRIL 16
ARRIVE THULE AB	1710 LT GST APRIL 16

DATA FLIGHT OVER GREENLAND	APRIL 17 OR 18
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DEPART THULE AB	1000 LT GST APRIL 19
ARRIVE EIELSON AFB	1130 LT ADT APRIL 19.

TRANSECT FLIGHTS WILL BRING AIRCRAFT NEAR OR OVER (DEPENDING ON ICE FLOES) ELLESMERE ISLAND OFF COAST OF GREENLAND.

9. AIRCRAFT IS NASA CV-990, CALL NUMBER N712 NA.

10. 34 PERSONS WILL ACCOMPANY AIRCRAFT. ALL U.S. CITIZENS EXCEPT DR. TADASHIA TABATA, PROFESSOR UNIVERSITY OF HOKKAIDO, JAPAN, ARCTIC SCIENTIST ASSOCIATED WITH AIDJEX.

11. ARRANGEMENTS FOR USE OF THULE BEING COORDINATED THROUGH NASA/AMES AIR FORCE SYSTEMS COMMAND LIAISON OFFICE.

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12. ALTERNATE EMERGENCY BASES ARE SONDRESTROM AIR BASE, GREENLAND AND FROBISHER, CANADA.

13. PILOT WILL FILE NORMAL INTERNATIONAL FLIGHT PLANS.

14. FOR OTTAWA: PRINCIPLE CANADIAN PARTICIPATION IN AIDJEX COORDINATED THROUGH POLAR CONTINENTAL SHELF PROJECT. NASA UNDERSTANDS CANADIAN DEPARTMENTS OF DEFENSE AND ENERGY, MINES AND RESOURCES ARE INVOLVED. R. RANSEIER OF ENVIRONMENTAL CANADA COORDINATOR ON GROUND TRUTH VERIFICATION.

15. FOR COPENHAGEN: PROFESSOR PREBEN GUDMANDSEN OF

ELECTROMAGNETICS INSTITUTE, TECHNICAL UNIVERSITY OF
DENMARK IS DANISH COUNTERPART ON GREENLAND ICE SHEET
PROJECT (GISP) (PARA 4 ABOVE).

16. FOR OTTAWA AND COPENHAGEN: REQUEST YOU SECURE
REQUIRED CLEARANCES PLUS OR MINUS 72 HOURS.

17. FOR MOSCOW: POST IS REQUESTED TO INFORM SOVIET AUTHOR-
ITIES OF PROPOSED FLIGHT NEAR THEIR TERRITORY. KISSINGER
UNQUOTE KISSINGER

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NNN

*** Current Handling Restrictions *** n/a

*** Current Classification *** UNCLASSIFIED

Message Attributes

Automatic Decaptioning: X
Capture Date: 01 JAN 1994
Channel Indicators: n/a
Current Classification: UNCLASSIFIED
Concepts: AIRCRAFT, PROGRAMS (PROJECTS), REMOTE SENSING, RESEARCH & DEVELOPMENT AGREEMENTS, SCIENTIFIC COOPERATION
Control Number: n/a
Copy: SINGLE
Draft Date: 18 APR 1975
Decaption Date: 01 JAN 1960
Decaption Note:
Disposition Action: n/a
Disposition Approved on Date:
Disposition Authority: n/a
Disposition Case Number: n/a
Disposition Comment:
Disposition Date: 01 JAN 1960
Disposition Event:
Disposition History: n/a
Disposition Reason:
Disposition Remarks:
Document Number: 1975STATE068666
Document Source: CORE
Document Unique ID: 00
Drafter: I BGARNER
Enclosure: n/a
Executive Order: n/a
Errors: n/a
Film Number: D750106-0392
From: STATE
Handling Restrictions: n/a
Image Path:
ISecure: 1
Legacy Key: link1975/newtext/t19750497/aaaagInt.tel
Line Count: 183
Locator: TEXT ON MICROFILM, TEXT ON-LINE
Office: ORIGIN NASA
Original Classification: UNCLASSIFIED
Original Handling Restrictions: n/a
Original Previous Classification: n/a
Original Previous Handling Restrictions: n/a
Page Count: 4
Previous Channel Indicators: n/a
Previous Classification: n/a
Previous Handling Restrictions: n/a
Reference: n/a
Review Action: RELEASED, APPROVED
Review Authority: ShawDG
Review Comment: n/a
Review Content Flags:
Review Date: 01 JUL 2003
Review Event:
Review Exemptions: n/a
Review History: RELEASED <01 JUL 2003 by maginmm>; APPROVED <02 FEB 2004 by ShawDG>
Review Markings:

Margaret P. Grafeld
Declassified/Released
US Department of State
EO Systematic Review
05 JUL 2006

Review Media Identifier:
Review Referrals: n/a
Review Release Date: n/a
Review Release Event: n/a
Review Transfer Date:
Review Withdrawn Fields: n/a
Secure: OPEN
Status: <DBA CORRECTED> mcm 971001
Subject: NASA ARCTIC EXPERIMENT PROGRAM, AIRCRAFT FLIGHTS PASS NASA EUROPEAN REPRESENTATIVE
TAGS: TSPA, NASA
To: MOSCOW
OTTAWA
Type: TE
Markings: Margaret P. Grafeld Declassified/Released US Department of State EO Systematic Review 05 JUL 2006